DIVISION 16 - ELECTRICAL

Section 16320 - Transformers (Medium Voltage)

Introduction

Transformers should be mounted on a raised concrete pad a minimum of 4" above the finished floor.

At each transformer a ground ring should be supplied with a 3/4" x 10' copper weld or copper clad ground rod at each corner tied together with a 3/0 copper ground conductor. This shall supply a grounding electrode for the transformer. Exothermic weld grounding electrode conductor to transformer ground pad.

Part 1 - General

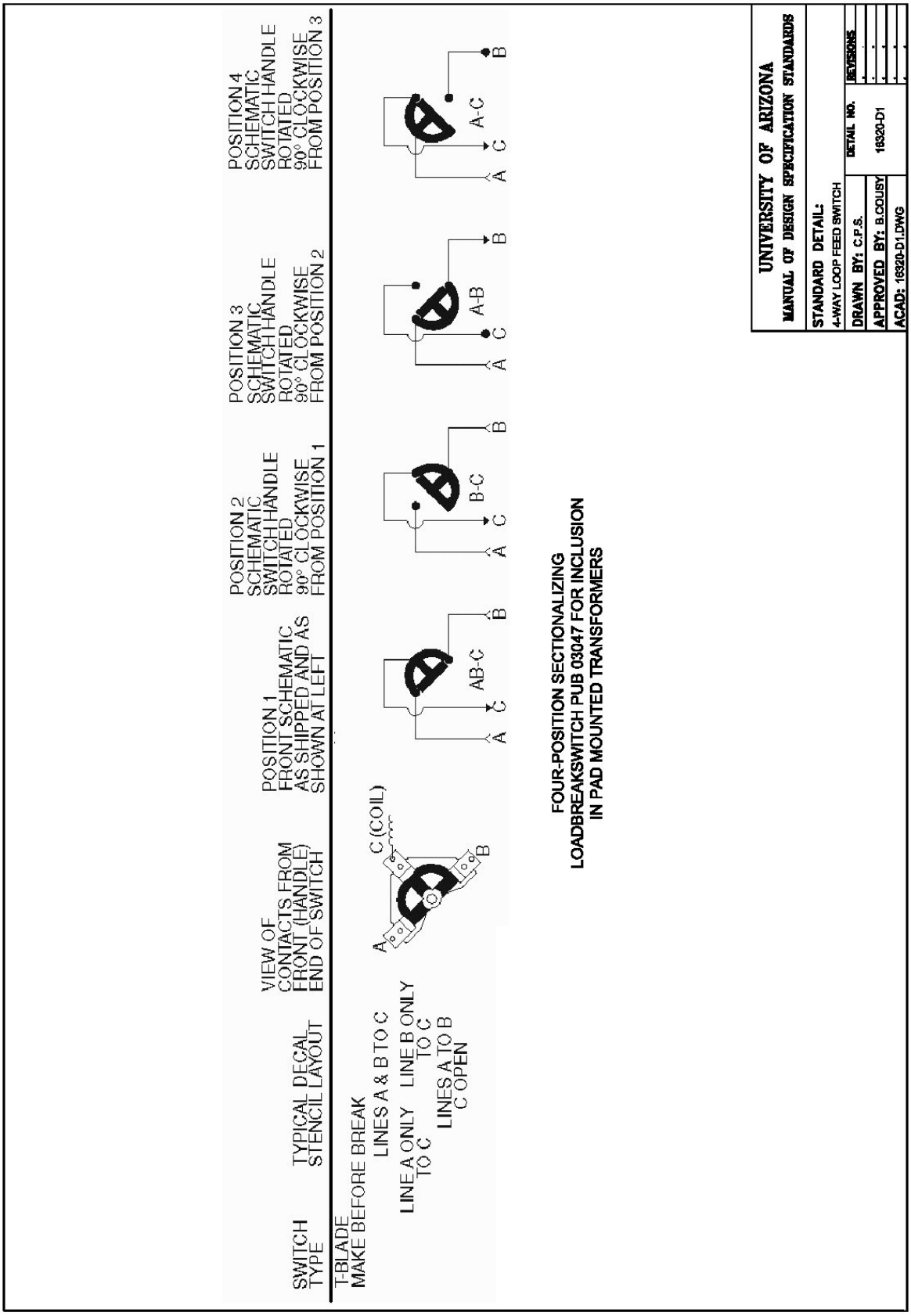
- Refer to Appendix Section 16320 and incorporate into project.
- Coordinate new building design to allow for easy removal of distribution transformers from building interiors.
- Transformers shall first be considered for outdoor placement. When indoor placement is approved, provide permanent hoisting and dolly apparatus with egress pathway for easy replacement. Utilize station transformers with a primary knife switch.
- Transformers shall not be loop feed with 4-way load break switch. Mount arrestors on the spare bushings. Refer to detail 16320-D1
- Aluminum wound transformers are acceptable up to 2500 KVA. Transformer shall be installed with load break primary terminations, surge arrestors and fee through load break adaptors.

Part 2 - Products

- Refer to Appendix Section 16320 and incorporate into project.

Part 3 - Execution

- Refer to Appendix Section 16320 and incorporate into project.
- All 13.8 KV equipment not utilized or in use inside or outside a building and its associated wiring shall be removed all the way back to where it originates.
- All installations shall be inspected by UFS Engineer, UFS Inspectors, and FM Medium Voltage shop prior to energization.



End of Section 16320